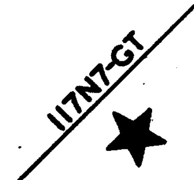




117N7-GT

RECTIFIER–BEAM POWER AMPLIFIER

Heater	Coated Unipotential Cathodes	
Voltage	117	a-c or d-c volts
Current	0.09	amp.
Maximum Overall Length		3-7/16"
Maximum Seated Height		2-7/8"
Maximum Diameter		1-5/16"
Bulb		T-9
Base		Intermediate Shell Octal 8-Pin

Pin 1 - No Connection
Pin 2 - Heater
Pin 3 - Amplifier Plate
Pin 4 - Amplifier Grid
Pin 5 - Amplifier Screen
Pin 6 - Amplifier Cathode
Pin 7 - Rectifier Plate, Heater
Pin 8 - Rectifier Cathode

BOTTOM VIEW (8AV)

Mounting Position: Any

RECTIFIER UNIT (Half-Wave)

Peak Inverse Voltage	350 max.	volts
Peak Plate Current	450 max.	ma.
D-C Heater-Cathode Potential	175 max.	volts
With Condenser-Input Filter:		
A-C Plate Voltage (RMS)	117 max.	volts
Total Effective Plate-Supply Impedance ▲	15 min.	ohms
D-C Output Current	75 max.	ma.

AMPLIFIER UNIT

Plate Voltage	117 max.	volts
Screen Voltage	117 max.	volts
Plate Dissipation	5.5 max.	watts
Screen Dissipation	1 max.	watt
Typical Operation and Characteristics - Class A_1 Amplifier:		
Plate Voltage	100	volts
Screen Voltage	100	volts
Grid Voltage □	-6	volts
Peak A-F Grid Voltage	6	volts
Zero-Signal Plate Current	51	ma.
Zero-Signal Screen Current	5	ma.
Plate Resistance	16000 approx.	ohms
Transconductance	7000	µmhos
Load Resistance	3000	ohms
Total Harmonic Distortion	6	%
Max.-Signal Power Output	1.2	watts

▲ When a filter-input condenser larger than 40 µf is used, it may be necessary to use more plate-supply impedance than the minimum value shown to limit the peak plate current to the rated value.

□ Type of input coupling used should not introduce too much resistance in the grid circuit. With fixed bias, the resistance should not exceed 0.25 megohm; with cathode bias, 1.0 megohm.

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.